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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,060	02/04/2004	Kang Sub Yim	AMAT/7034.PI/DSM/LOW 5473 K/JW		
44257	7590 08/26/2005	•	EXAMINER		
,	ATTERSON & SHERIDA ATERIALS, INC.	PADGETT, MARIANNE L			
3040 POST OAK BOULEVARD, SUITE 1500			ART UNIT	PAPER NUMBER	
HOUSTON,			1762		
			DATE MAILED: 08/26/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTOL-326 (Rev. 1-04)	Office Action Su	ımmary	Part of Paper No./Mail [Date 20050822
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Ro 3) Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date 6/13/5,6/6/5,3/21/6	1449 or PTO/SB/08)	Paper No(s)	mmary (PTO-413) Mail Date ormal Patent Application (PT -	O-152)
12) Acknowledgment is made of a a) All b) Some * c) Non 1. Certified copies of the p 2. Certified copies of the p 3. Copies of the certified of application from the Interview	ne of: priority documents have priority documents have copies of the priority documentational Bureau (PCT)	e been received. e been received in Apcuments have been r	plication No eceived in this Nationa	l Stage
Priority under 35 U.S.C. § 119				
9) The specification is objected to 10) The drawing(s) filed on Applicant may not request that a Replacement drawing sheet(s) ir 11) The oath or declaration is objected to the specific transfer of trans	is/are: a) ☐ accepted ny objection to the drawin acluding the correction is r	g(s) be held in abeyand required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 C	· · ·
Application Papers	restriction and/or elect	non requirement.		
6) Claim(s) <u>1-20</u> is/are rejected. 7) Claim(s) is/are objecte 8) Claim(s) are subject to	ed to.			
4a) Of the above claim(s) 5) Claim(s) is/are allowed		m consideration.		
4)⊠ Claim(s) <u>1-20</u> is/are pending	• •			
Disposition of Claims				
closed in accordance with the		<u>-</u>	· •	
3) Since this application is in co	•		ers, prosecution as to th	ne merits is
1) Responsive to communicatio 2a) This action is FINAL .	n(s) filed on <u>6/13/05, 6/</u> 2b)⊡ This action	•		
Status				
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COI - Extensions of time may be available under the lafter SIX (6) MONTHS from the mailing date of if the period for reply specified above is less that if NO period for reply is specified above, the mailing to reply within the set or extended perion Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	MMUNICATION. provisions of 37 CFR 1.136(a). Ir this communication. an thirty (30) days, a reply within t aximum statutory period will apply d for reply will, by statute, cause t e months after the mailing date of	n no event, however, may a re the statutory minimum of thirty and will expire SIX (6) MONT the application to become ABA	ply be timely filed (30) days will be considered tim "HS from the mailing date of this ANDONED (35 U.S.C. § 133).	ely. communication.
Period for Reply				
The MAILING DATE of this co		anne L. Padgett	h the correspondence a	ddross
Office Action Summ	ary Exam	miner	Art Unit	
		773,060	YIM ET AL.	
	Арр	lication No.	Applicant(s)	

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1. The 112 problems of the claims have been corrected by amendment

CFR 3.73(b) & the terminal disclaimers for 10/428,374 &10/302,393 have been approved, removing these 2 rejections.

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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In the claims, it is still noted that the language "comprising one ring and one or two carbon-carbon double bonds in the ring" (emphasis added) will read on (1+) C=C being present, i.e., 1, 2, 3, or more C=C, as well as 1 or more rings due to the open comprising language, thus the claim language as written is inclusive of hydrocarbons with an aromatic rings(s), etc. Also note that the "mixture comprising..." means that if there are multiple Si precursors only one need be both liner and oxygen free, but other precursors can have any of the excluded features.

4. Claims 1-8 and 17-18 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims (1-3, 17, 18 & 20) of copending Application No. 10/302,375. Although the conflicting claims are not identical, they are not patentably distinct from each other because the applications have overlapping ranges of deposition materials, with the (375) as discussed in section 6 of the action mailed 4/14/05. It is noted that the submitted terminal disclaimer did not include this case.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

5. Claims 1-6 and 8 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Grill et al (6,312,793 B1), discussed in section 8 of the action mailed 4/14/05.

As Grill et al (793) teach an oxidizing agent (O₂ or N₂O), the amended specific inclusion of O₂ was already covered by Grill et al (793), as was the inclusion of Si, O & C in the deposited film (claim 1)

- 6. Claims 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grill et al as applied to claims 1-6 and 8 above, and further in view of Wakizaka et al (6,270,900B1), discussed in section 9 of the action mailed 4/14/05.
- 7. Claims 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grill et al (793) as applied to claims 1-6 and 8 above, and further in view of Goo et al (6,657,251) or Ross (6,271,146 B1), discussed in section 10 of the action mailed 4/14/05.

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Claims 16 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grill et al (793) in view of Wakizaka et al as applied to claims 1-6 & 8-15 above, and further in view of Goo et al or Ross (146), discussed in section 10 of the action mailed 4/14/05.

- 8. Claims 1-6 & 8 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2, 5, 6, 8, 10-12, 14, 20 and 22-23 of U.S. Patent No. 6,797,643. Although the conflicting claims are not identical, they are not patentably distinct from each other because like in sections 6 & 12 discussed of the action mailed 4/14/05andsection 4 above.
- 9. Applicant's arguments filed 6/13/05 & discussed above have been fully considered but they are not persuasive.

While applicants' amendments slightly narrow the scope of the independent claims, the do so within the scope of broad limitations already covered by the primary reference.

10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M L. Padgett whose telephone number is (571) 272-1425. The examiner can normally be reached on Monday-Friday from about 8:30 am to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached at (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. L. P 8/22/05

MARIANNE PADGETT PRIMARY EXAMINER